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THAT WHICH IS CLAIMED:

1. A compound of the formula:

$$Q \xrightarrow{Q^{i}} N \xrightarrow{R} Q^{ii}$$

$$Cy \xrightarrow{Q^{ii}} Q^{iii}$$

wherein Q is $(CH_2)_u$, Q^i is $(CH_2)_v$, Q^{ii} is $(CH_2)_w$, Q^{iii} is $(CH_2)_x$, and Q^{iv} is $(CH_2)_v$ where u, v, w and x are individually 0, 1, 2, 3 or 4 and y is 1 or 2; Z is a non-hydrogen substituent species characterized as having a sigma m value between -0.3 and about 0.75; i is from 0 to 10; R is hydrogen or lower alkyl; and Cy is

$$Cx$$
 A
 X
 D_k
 X'

where each of X, X' and X" are individually nitrogen, nitrogen bonded to oxygen or carbon bonded to a substituent species characterized as having a sigma m value between about -0.3 and about 0.75; A is \Diamond or C=O; D is a non-hydrogen substituent species characterized as having a sigma m value between about -0.3 and about 0.75; k is 0, 1 or 2; and Cx is selected from a group consisting of aryl, substituted aryl, heteroaryl, substituted heteroaryl, non-aromatic heterocyclyl, substituted nonaromatic heterocyclyl, non-aromatic heterocyclyl lkyl and substituted non-aromatic heterocyclylalkyl.

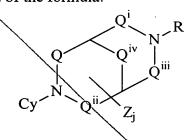
- 2. The compound of Claim 1, wherein X" is nitrogen.
- 3. The compound of Claim 1, wherein X' and X" are nitrogen.
- 4. The compound of Claim 1, wherein j is 0, 1 or 2.
- 5. The compound of Chair 1, wherein the values of u, v, w, x and y are selected to provide a 7-, 8- or 9-monbared diazabicyclic ring.

6. The compound of Claim 1, wherein Cx is selected from the group consisting of:

wherein Y, Y', Y" and Y"" are individually nitrogen, nitrogen bonded to oxygen, or carbon bonded to hydrogen or a substituent species, G; E is oxygen, sulfur or nitrogen bonded to hydrogen or a substituent species, G; E', E" and E" are individually nitrogen or carbon bonded to hydrogen or a substituent species, G; m is 0, 1, 2, 3 or 4; p is 0, 1, 2 or 3; n is 0, 1, 2, 3 or 4; and G is selected from the group consisting of alkyl, substituted alkyl, alkenyl, substituted alkenyl, non-aromatic heterocyclyl, substituted non-aromatic heterocyclyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, alkylaryl, substituted alkylaryl, arylalkyl, substituted arylalkyl, -F, -Cl, -Br, -I, -OR', -NR'R", -CF₃, -CN, -N₃, -NO₂, -C₂R', -SR', -SOR', -SO₂CH₃, -SO₂NR'R", -C(=O)NR'R", -NR'C(=O)R", -NR'SO₂R", -C(=O)R', -C(=O)OR', -(CH₂)_qOR', -OC(=O)R', -(CR'R")_qOCH₂C₂R', -(CR'R")_qC(=O)R', -OC(=O)NR'R" and

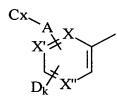
- -NR'C(=O)OR' where R' and R" are individually hydrogen, lower alkyl, an aromatic group-containing species or a substituted aromatic group-containing species, and q is an integer from 1 to 6.
- 7. The compound of Claim 6, wherein Y, Y', Y" and Y" all are carbon bonded to a substituent species.
- 8. The compound of Claim 6, wherein one or two of Y, Y', Y" and Y" are nitrogen and the remaining are carbon bonded to a substituent species.
- 9. The compound of Claim 6, wherein E', E" and E" all are carbon bonded to substituent species.
- 10. The compound of Claim 6, wherein one or two of E', E" and E" are nitrogen and the remaining are carbon bonded to substituent species.
- 11. The compound of Claim 1, selected from the group consisting of (1S,4S)-2-(5-(3-methoxyphenoxy)-3-pyridyl)-2,5-diazabicyclo[2.2.1]heptane, (1S,4S)-2-(5-(4-methoxyphenoxy)-3-pyridyl)-2,5-diazabicyclo[2.2.1]heptane, (1S,4S)-2-(5-(4-fluorophenoxy)-2-pyridyl)-2,5-diazabicyclo[2.2.1]heptane, (1S,4S)-2-(5-(3-thienyl)-3-pyridyl)-2,5-diazabicyclo[2.2.1]heptane and (1S,4S)-2-(5-benzoyl-3-pyridyl)-2,5-diazabicyclo[2.2.1]heptane.
 - 12. A compound of the formula:





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wherein Q is (CH₂)_u, Qⁱ is (CH₂)_v, Qⁱⁱ is (CH₂)_w, Qⁱⁱⁱ is (CH₂)_x, and Q^{iv} is (CH₂)_y where u, v, w and x are individually 0, 1, 2, 3 or 4 and y is 1 or 2; ; Z is a nonhydrogen substituent species characterized as having a sigma m value between -0.3 and about 0.75; j is from 0 to 10; R is hydrogen or lower alkyl; and Cy is



where each of X, X' and X" are individually nitrogen, nitrogen bonded to oxygen or carbon bonded to a substituent species characterized as having a sigma m value between about -0.3 and about 0.75; A is a covalent bond; D is a non-hydrogen substituent species characterized as having a sigma m value between about -0.3 and about 0.75; k is 0, 1 or 2; and Cx is selected from a group consisting of aryl, substituted aryl, heteroaryl, substituted heteroaryl, non-aromatic heterocyclyl, substituted non-aromatic heterocyclyl, non-aromatic heterocyclylalkyl and substituted non-aromatic heterocyclylalkyl, with the proviso that the diazabicyclic ring is not 2,5diazabicyclo[2.2.1]heptane and/or Cx is not phenyl or substituted phenyl.

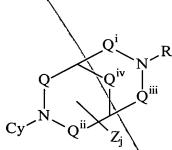
- The compound of Claim 12, wherein X" is nitrogen. 13.
- 14. The compound of Claim 12, wherein X' and X" are nitrogen.
- 15. The compound of Claim 12, wherein i is 0, 1 or 2.
- The compound of Claim 12, wherein the values of u, v, w, x and y are 16. selected to provide a 7-, 8- or 9-membered diazabicyclic ring.

17. The compound of Claim 12, wherein Cx is selected from the group consisting of:

wherein Y, Y', Y" and Y" are individually nitrogen, nitrogen bonded to oxygen, or carbon bonded to hydrogen or a substituent species, G; E is oxygen, sulfur or nitrogen bonded to hydrogen or a substituent species, G; E', E" and E" are individually nitrogen or carbon bonded to hydrogen or a substituent species, G; m is 0, 1, 2, 3 or 4; p is 0, 1, 2 or 3; n is 0, 1, 2, 3 or 4; and G is selected from the group consisting of alkyl, substituted alkyl, alkenyl, substituted alkenyl, non-aromatic heterocyclyl, substituted non-aromatic heterocyclyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, alkylaryl, substituted alkylaryl, arylalkyl, substituted arylalkyl, -F, -Cl, -Br, -I, -OR', -NR'R", -CF₃, -CN, -N₃, -NO₂, -C₂R', -SR', -SOR', -SO₂CH₃, -SO₂NR'R", -C(=O)NR'R", -NR'C(=O)R", -NR'SO₂R", -C(=O)R', -C(=O)OR', -(CH₂)_qOR', -OC(=O)R', -(CR'R")_qOCH₂C₂R', -(CR'R")_qC(=O)R', -OC(=O)NR'R" and

-NR'C(=O)OR' where R' and R" are individually hydrogen, lower alkyl, an aromatic group-containing species or a substituted aromatic group-containing species, and q is an integer from 1 to 6.

- 18. The compound of Claim 17, wherein Y, Y', Y" and Y" all are carbon bonded to a substituent species.
- 19. The compound of Claim 17, wherein one or two of Y, Y', Y" and Y" are nitrogen and the remaining are carbon bonded to a substituent species.
- 20. The compound of Claim 17, wherein E', E" and E" all are carbon bonded to substituent species.
- 21. The compound of Claim 17, wherein one or two of E', E" and E" are nitrogen and the remaining are carbon bonded to substituent species.
- 22. A pharmaceutical composition useful for treatment of central nervous system disorders comprising a therapeutically effective amount of a compound of the formula:



wherein Q is $(CH_2)_u$, Qⁱ is $(CH_2)_v$, Qⁱⁱ is $(CH_2)_w$, Qⁱⁱⁱ is $(CH_2)_x$, and Q^{iv} is $(CH_2)_y$ where u, v, w and x are individually 0, 1, 2, 3 or 4 and y is 1 or 2; Z is a non-hydrogen substituent species characterized as having a sigma m value between -0.3 and about 0.75; j is from 0 to 10; R is hydrogen or lower alkyl; and Cy is



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where each of X, X' and X" are individually nitrogen, nitrogen bonded to oxygen or carbon bonded to a substituent species characterized as having a sigma m value between about -0.3 and about 0.75; A is O or C=O; D is a non-hydrogen substituent species characterized as having a sigma m value between about -0.3 and about 0.75; k is 0, 1 or 2; and Cx is selected from a group consisting of aryl, substituted aryl, heteroaryl, substituted heteroaryl, non-aromatic heterocyclyl, substituted non-aromatic heterocyclylalkyl.

- 23. The pharmaceutical composition of Claim 22, wherein X" is nitrogen.
- 24. The pharmaceutical composition of Claim 22, wherein X' and X" are nitrogen.
 - 25. The pharmaceutical composition of Claim 22, wherein j, is 0, 1 or 2.
- 26. The pharmaceutical composition of Claim 22, wherein the values of u, v, w, x and y are selected to provide a 7-, 8- or 9-membered diazabicyclic ring.
- 27. The pharmaceutical composition of Claim 22, wherein Cx is selected from the group consisting of:

$$\text{Etl}_{p}^{G_{m}}$$

$$E$$
 G_m
 $(CH_2)_n$

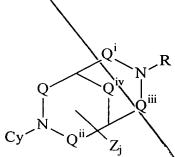
wherein Y, Y', Y" and Y" are individually nitrogen, nitrogen bonded to oxygen, or carbon bonded to hydrogen or a substituent species, G; E is oxygen, sulfur or nitrogen bonded to hydrogen or a substituent species, G; E', E" and E" are individually nitrogen or carbon bonded to hydrogen or a substituent species, G; m is 0, 1, 2, 3 or 4; p is 0, 1, 2 or 3; n is 0, 1, 2, 3 or 4; and G is selected from the group consisting of alkyl, substituted alkyl, alkenyl, substituted alkenyl, non-aromatic heterocyclyl, substituted non-aromatic heterocyclyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, alkylaryl, substituted alkylaryl, arylalkyl, substituted arylalkyl, -F, -Cl, -Br, -I, -OR', -NR'R", -CF₃, -CN, -N₃, -NO₂, -C₂R', -SR', -SOR', -SO₂CH₃, -SO₂NR'R", -C(=O)NR'R", -NR'C(=O)R", -NR'SO₂R", -C(=O)R', -C(=O)OR', -(CH₂)_qOR', -OC(=O)R', -(CR'R")_qOCH₂C₂R', -(CR'R")_qC(=O)R', -OC(=O)NR'R" and -NR'C(=O)OR' where R' and R" are individually hydrogen, lower alkyl, an aromatic group-containing species or a substituted aromatic group-containing species, and q is an integer from 1 to 6.

- 28. The pharmaceutical composition of Claim 27, wherein Y, Y', Y'' and Y''' all are carbon bonded to a substituent species.
- 29. The pharmaceutical composition of Claim 27, wherein one or two of Y, Y', Y" and Y" are nitrogen and the remaining are carbon bonded to a substituent species.

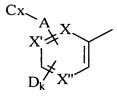


30. The pharmaceutical composition of Claim 27, wherein E', E" and E" all are carbon bonded to substituent species.

- 31. The pharmaceutical composition of Claim 27, wherein one or two of E', E" and E" are nitrogen and the remaining are carbon bonded to substituent species.
- 32. The pharmaceutical composition of Claim 27, wherein the compound is selected from the group consisting of (1S,4S)-2-(5-(3-methoxyphenoxy)-3-pyridyl)-2,5-diazabicyclo[2.2.1]heptane, (1S,4S)-2-(5-(4-methoxyphenoxy)-3-pyridyl)-2,5-diazabicyclo[2.2.1]heptane, (1S,4S)-2-(5-(4-fluorophenoxy)-3-pyridyl)-2,5-diazabicyclo[2.2.1]heptane, (1S,4S)-2-(5-(3-thienyl)-3-pyridyl)-2,5-diazabicyclo[2.2.1]heptane and (1S,4S)-2-(5-benzoyl-3-pyridyl)-2,5-diazabicyclo[2.2.1]heptane.
- 33. A pharmaceutical composition useful for treatment of central nervous system disorders comprising a therapeutically effective amount of a compound of the formula:



wherein Q is $(CH_2)_u$, Qⁱ is $(CH_2)_v$, Qⁱⁱ is $(CH_2)_w$, Qⁱⁱⁱ is $(CH_2)_x$, and Q^{iv} is $(CH_2)_y$ where u, v, w and x are individually 0, 1, 2, 3 or 4 and y is 1 or 2; ; Z is a non-hydrogen substituent species characterized as having a sigma m value between -0.3 and about 0.75; j is from 0 to 10; R is hydrogen or lower alkyl; and Cy is



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where each of X, X' and X" are individually nitrogen, nitrogen bonded to oxygen or carbon bonded to a substituent species characterized as having a sigma m value between about -0.3 and about 0.75; A is a covalent bond; D is a non-hydrogen substituent species characterized as having a sigma m value between about -0.3 and about 0.75; k is 0, 1 or 2; and Cx is selected from a group consisting of aryl, substituted aryl, heteroaryl, substituted heteroaryl, non-aromatic heterocyclyl, substituted non-aromatic heterocyclyl, non-aromatic heterocyclylalkyl and substituted non-aromatic heterocyclylalkyl, with the proviso that the diazabicyclic ring is not 2,5-diazabicyclo[2.2.1]heptane and/or Cx is not phenyl or substituted phenyl.

- 34. The pharmaceutical composition of Claim 33, wherein X" is nitrogen.
- 35. The pharmaceutical composition of Claim 33, wherein X' and X" are nitrogen.
 - 36. The pharmaceutical composition of Claim 33, wherein j is 0, 1 or 2.
- 37. The pharmaceutical composition of Claim 33, wherein the values of u, v, w, x and y are selected to provide a 7-, 8- or 9-membered diazabicyclic ring.
- 38. The pharmaceutical composition of Claim 33, wherein Cx is selected from the group consisting of:

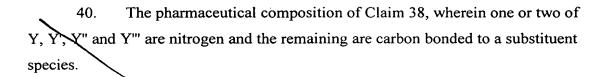


$$G_{m}$$
 $(CH_{2})_{n}$

wherein Y, Y', Y" and Y" are individually nitrogen, nitrogen bonded to oxygen, or carbon bonded to hydrogen or a substituent species, G; E is oxygen, sulfur or nitrogen bonded to hydrogen or a substituent species, G; E', E" and E" are individually nitrogen or carbon bonded to hydrogen or a substituent species, G; m is 0, 1, 2, 3 or 4; p is 0, 1, 2 or 3; n is 0, 1, 2, 3 or 4; and G is selected from the group consisting of alkyl, substituted alkyl, alkenyl, substituted alkenyl, non-aromatic heterocyclyl, substituted non-aromatic heterocyclyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, alkylaryl, substituted alkylaryl, arylalkyl, substituted arylalkyl, -F, -Cl, -Br, -I, -OR', -NR'R", -CF₃, -CN, -N₃, -NO₂, -C₂R', -SR', -SOR', -SO₂CH₃, -SO₂NR'R", -C(=O)NR'R", -NR'C(=O)R", -NR'SO₂R", -C(=O)R', -C(=O)OR', -(CH₂)_qOR', -OC(=O)R', -(CR'R")_qOCH₂C₂R', -(CR'R")_qC(=O)R', -O(CR'R")_qC(=O)R', -C₂(CR'R")_qO R', -(CR'R")_qNR'R", -OC(=O)NR'R" and -NR'C(=O)OR' where R' and R" are individually hydrogen, lower alkyl, an aromatic group-containing species or a substituted aromatic group-containing species, and q is an integer from 1 to 6.

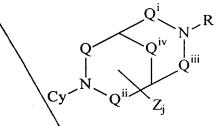
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39. The pharmaceutical composition of Claim 38, wherein Y, Y', Y'' and Y''' all are carbon bonded to a substituent species.

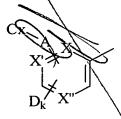




- 41. The pharmaceutical composition of Claim 38, wherein E', E" and E" all are carbon bonded to substituent species.
- 42. The pharmaceutical composition of Claim 38, wherein one or two of E', E" and E" are nitrogen and the remaining are carbon bonded to substituent species.
- 43. A method of treating central nervous system disorders comprising of administering to a subject in need thereof a therapeutically effective amount of a compound of the formula:



wherein Q is $(CH_2)_u$, Q^i is $(CH_2)_v$, Q^{ii} is $(CH_2)_w$, Q^{iii} is $(CH_2)_x$, and Q^{iv} is $(CH_2)_y$ where u, v, w and x are individually 0, 1, 2, 3 or 4 and y is 1 or 2; Z is a non-hydrogen substituent species characterized as having a sigma m value between -0.3 and about 0.75; j is from 0 to 10; R is hydrogen or lower alkyl; and Cy is



where each of X, X' and X" are individually nitrogen, nitrogen bonded to oxygen or carbon bonded to a substituent species characterized as having a sigma m value between about -0.3 and about 0.75; A is O or C=O; D is a non-hydrogen substituent species characterized as having a sigma m value between about -0.3 and about 0.75; k is 0, 1 or 2; and Cx is selected from a group consisting of aryl, substituted aryl, heteroaryl, substituted heteroaryl, non-aromatic heterocyclyl, substituted non-

aromatic heterocyclyl, non-aromatic heterocyclylalkyl and substituted non-aromatic heterocyclylalkyl.

- 44.\ The method according to Claim 43, wherein X" is nitrogen.
- 45. The method according to Claim 43, wherein X' and X" are nitrogen.
- 46. The method according to Claim 43, wherein j is 0, 1 or 2.
- 47. The method according to Claim 43, wherein the values of u, v, w, x and y are selected to provide a 7-, 8- or 9-membered diazabicyclic ring.
- 48. The method according to Claim 43, wherein Cx is selected from the group consisting of:

wherein Y, Y', Y" and Y" are individually nitrogen, nitrogen bonded to oxygen, or carbon bonded to hydrogen or a substituent species, G; E is oxygen, sulfur or nitrogen

nonded to hydrogen or a substituent species, G; E', E" and E" are individually nitrogen or carbon bonded to hydrogen or a substituent species, G; m is 0, 1, 2, 3 or 4; p is 0, 1, 2 or 3; n is 0, 1, 2, 3 or 4; and G is selected from the group consisting of alkyl, substituted alkyl, alkenyl, substituted alkenyl, non-aromatic heterocyclyl, substituted non-aromatic heterocyclyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, alkylaryl, substituted alkylaryl, arylalkyl, substituted arylalkyl, -F, -Cl, -Br, -I, -OR', -NR'R", -CF₃, -CN, -N₃, -NO₂, -C₂R', -SR', -SOR', -SO₂CH₃, -SO₂NR'R", -C(=O)NR'R", -NR'C(=O)R", -NR'SO₂R", -C(=O)R', -C(=O)OR', -(CH₂)_qOR', -OC(=O)R', -(CR'R")_qOCH₂C₂R', -(CR'R")_qC(=O)R', -O(CR'R")_qC(=O)R', -C₂(CR'R")_qO R', -(CR'R")_qNR'R", -OC(=O)NR'R" and -NR'C(=O)OR' where R' and R" are individually hydrogen, lower alkyl, an aromatic group-containing species or a substituted aromatic group-containing species, and q is an integer from 1 to 6.

- 49. The method according to Claim 43, wherein Y, Y', Y" and Y" all are carbon bonded to a substituent species.
- 50. The method according to Claim 48, wherein one or two of Y, Y', Y'' and Y''' are nitrogen and the remaining are carbon bonded to a substituent species.
- 51. The method according to Claim 48, wherein E', E" and E" all are carbon bonded to substituent species.
- 52. The method according to Claim 48, wherein one or two of E', E" and E" are nitrogen and the remaining are carbon bonded to substituent species.
- 53. The method according to Claim 48, wherein the compound is selected from the group consisting of (1S,4S)-2-(5-(3-methoxyphenoxy)-3-pyridyl)-2,5-diazabicyclo[2.2.1]heptane, (1S,4S)-2-(5-(4-methoxyphenoxy)-3-pyridyl)-2,5-diazabicyclo[2.2.1]heptane, (1S,4S)-2-(5-(4-fluorophenoxy)-3-pyridyl)-2,5-diazabicyclo[2.2.1]heptane, (1S,4S)-2-(5-(3-thienyl)-3-pyridyl)-2,5-diazabicyclo[2.2.1]heptane and (1S,4S)-2-(5-benzoyl-3-pyridyl)-2,5-diazabicyclo[2.2.1]heptane.

54. A method of treating central nervous system disorders comprising of administering to a subject in need thereof a therapeutically effective amount of a compound of the formula:

$$Q^{i}$$
 Q^{iv}
 Q^{iv}
 Q^{iii}
 Q^{iii}
 Q^{iii}
 Q^{iii}

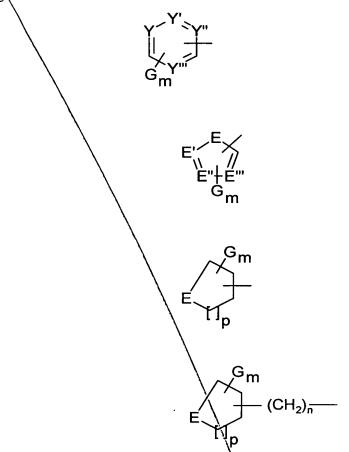
wherein Q is $(CH_2)_u$, Q^i is $(CH_2)_v$, Q^{ii} is $(CH_2)_w$, Q^{iii} is $(CH_2)_x$, and Q^{iv} is $(CH_2)_y$ where u, v, w and x are individually 0, 1, 2, 3 or 4 and y is 1 or 2; Z is a non-hydrogen substituent species characterized as having a sigma m value between -0.3 and about 0.75; j is from 0 to 10; R is hydrogen or lower alkyl; and Cy is

$$Cx$$
 X'
 X'
 X''

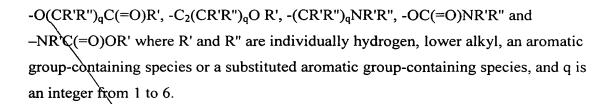
where each of X, X' and X" are individually nitrogen, nitrogen bonded to oxygen or carbon bonded to a substituent species characterized as having a sigma m value between about -0.3 and about 0.75; A is a covalent bond; D is a non-hydrogen substituent species characterized as having a sigma m value between about -0.3 and about 0.75; k is 0, 1 or 2; and Cx is selected from a group consisting of aryl, substituted aryl, heteroaryl, substituted heteroaryl, non-aromatic heterocyclyl, substituted non-aromatic heterocyclyl, non-aromatic heterocyclylalkyl and substituted non-aromatic heterocyclylalkyl, with the provise that the diazabicyclic ring is not 2,5-diazabicyclo[2.2.1]heptane and/or Cx is not phenylox substituted phenyl.

- 55. The method of Claim 54, wherein X" is nitrogen.
- 56. The method of Claim 54, wherein X' and X' are nitrogen.
- 57. The method of Claim 54, wherein j is 0, 1 or 2.

- 58. The method of Claim 54, wherein the values of u, v, w, x and y are selected to provide a 7-, 8- or 9-membered diazabicyclic ring.
- 59. The method of Claim 54, wherein Cx is selected from the group consisting of:



wherein Y, Y', Y" and Y" are individually nitrogen, nitrogen bonded to oxygen, or carbon bonded to hydrogen or a substituent species, G; E is oxygen, sulfur or nitrogen bonded to hydrogen or a substituent species, G; E', E" and E" are individually nitrogen or carbon bonded to hydrogen or a substituent species, G; m is 0, 1, 2, 3 or 4; p is 0, 1, 2 or 3; n is 0, 1, 2, 3 or 4; and G is selected from the group consisting of alkyl, substituted alkyl, alkenyl, substituted alkenyl, non-aromatic heterocyclyl, substituted non-aromatic heterocyclyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, alkylaryl, substituted alkylaryl, arylalkyl, substituted arylalkyl, -F, -Cl, -Br, -I, -OR', -NR'R", -CF₃, -CN, -N₃, -NO₂, -C₂R', -SR', -SOR', -SO₂CH₃, -SO₂NR'R", -C(=O)NR'R", -NR'C(=O)R", -NR'SO₂R", -C(=O)R', -C(=O)OR', -(CR'R")_qOCH₂C₂R', -(CR'R")_qC(=O)R',



- 60. The method of Claim 59, wherein Y, Y', Y" and Y" all are carbon bonded to a substituent species.
- 61. The method of Claim 59, wherein one or two of Y, Y', Y" and Y" are nitrogen and the remaining are carbon bonded to a substituent species.
- 62. The method of Claim 59, wherein E', E" and E" all are carbon bonded to substituent species.
- 63. The method of Claim 59, wherein one or two of E', E" and E" are nitrogen and the remaining are carbon bonded to substituent species.